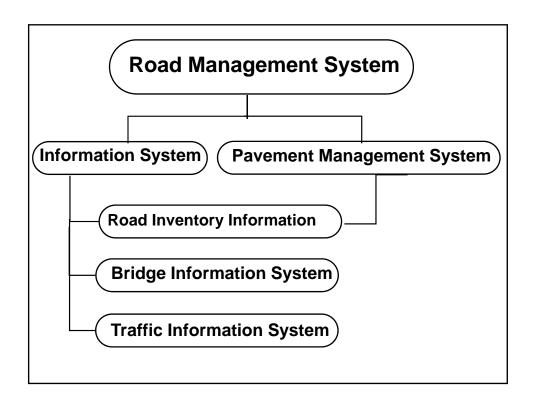
Concepts of Road Management System

Road Management Systems (RMS)

- System used to store and process road data for highway planning and programming
- The Methodology to identify, prioritise and address maintenance and planning decisions of road network using computerised technical tools systematically



> Road Information System

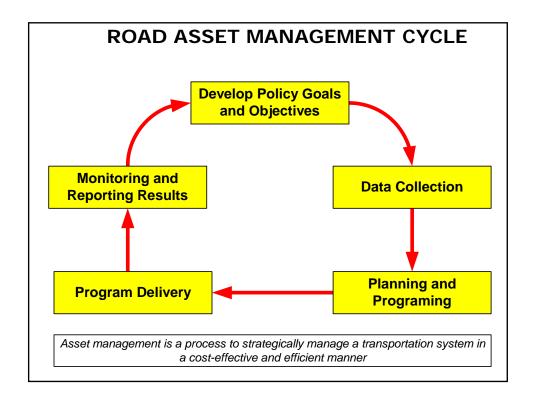
- Road Inventory Information
- Road Asset Information
- Road Condition Information
- Traffic Information
- Bridge Information
- Accident Information

> Pavement Management System

- Optimisation & Prioritisation of upgrading & maintenance works including budget planning
- Life cycle cost approach
- Uses the inventory and traffic information
- Computerised planning tools

Key elements of RMS

- → Strategic Goals
- Inventory
- → Performance Indicators
- → Prediction tools
- → Decision analysis
- → Optimisation tool
- → Links to budget process

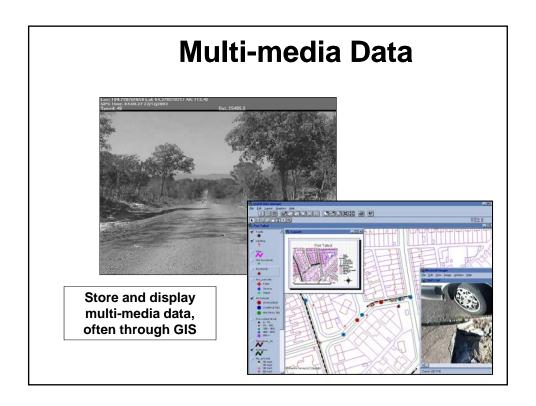


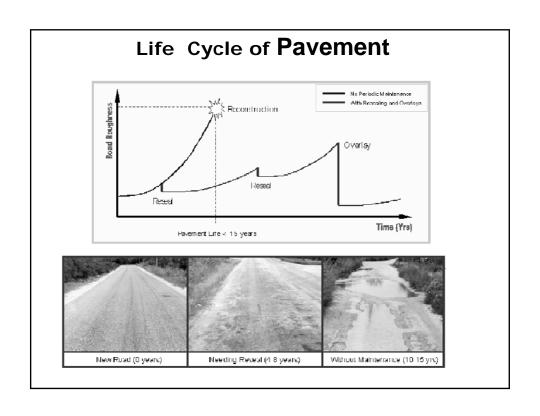
Objectives of RMS

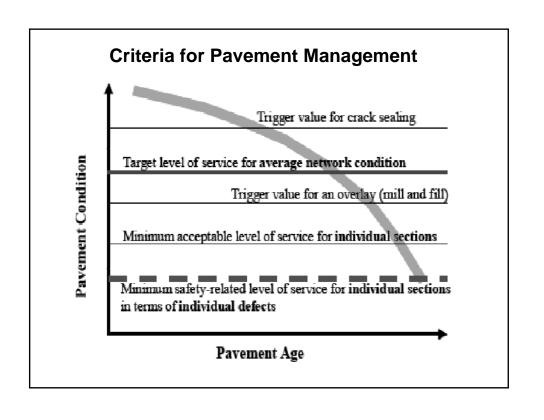
- Operating road network with minimum cost and high efficiency
- → Life cycle support to the road network management
- Accurate Information to the managers
- Managing Road Asset is important for economic development
 - Cost effective
 - Strategic
 - Efficient

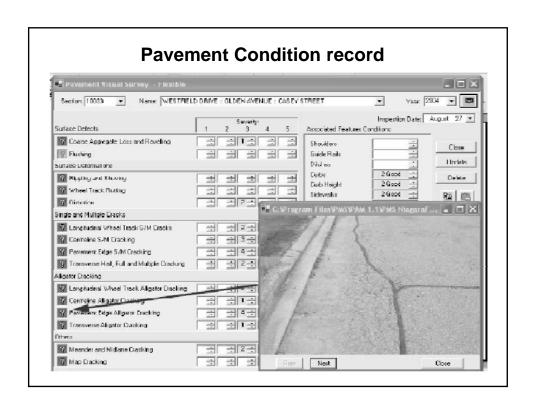
RMS in the Planning Process

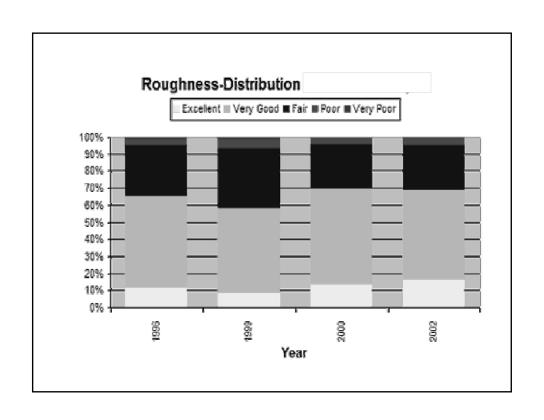
- → Reliable database
- → Rational work programmes
- Field inspections to refine the programme
- → Forward Programming

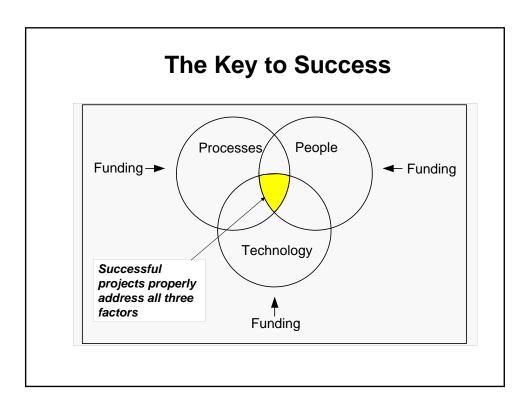












Processes

Success Factor

The RMS must have an active role in the agency

→ To Achieve this,

- The RMS must be an integral part of the agency's monitoring and planning process
- Outputs should be used to prepare annual reports to ensure data are regularly collected and the system applied

Technology

- → Key Success Factor:
 - The IT components should be appropriate
- → To Achieve This:

Need a strong IT division – or outsource

RMS must fit into IT strategy

People

- → Key Success Factor:
 - The RMS must be fully institutionalized and supported
- → To Achieve This:
 - There must be an organizational unit to manage, monitor and continually improve the RMS

Applications of RMS

- → Annual Reports
 - Key Performance INDICATORS
 - Five year Goals
 - Annual Asset Management Plans
 - Financial Plans
- → Budget Preparations
 - Unconstrained Budget
 - Justifications for funds requested
 - Prioritisations

Applications of RMS

- Asset Preservation (Maintenance)
 - Upkeeping of the assets
 - Minimum standards
- Asset Value
 - Measuring the value of Infrastructure
 - Key performance indicator
 - Goals and Objectives
 - Compare different investments

RMS being developed by HD

- Web enabled
- → HQ to subdivision
- → Road Details –sub division, division and Circle
- → Separate interfaces
- → Remote updating
- → Public use

RMS

- Sub data base of cross drainage structures and conditions
- → Traffic Information
- → Road Condition Index
- Automatic sectioning process

Information to the Stakeholders

- → Districtwise Road Name with length
- → Critical Inventory Information
- Lane details
- Condition index
- → Traffic details
- → Budget for road works
- → Work Programme

Further expectations of Stakeholders?